

Claim Amendments (proposed for discussion purposes only)

28. (original) A reagent system comprising a compound according to Claim 26, an antibody for amphetamine and an antibody for methamphetamine.

29. (currently amended) A method for determining amphetamine and/or methamphetamine in a sample suspected of containing amphetamine and/or methamphetamine, said method comprising:

- (a) providing in combination in a medium:
  - (i) said sample and
  - (ii) a reagent system according to Claim 28; and
- (b) examining said medium for the presence or amount of signal from said enzyme ~~of a complex comprising said compound and said antibody for amphetamine and/or a complex of said compound and said antibody for methamphetamine~~, the presence or amount thereof indicating the presence or amount of said amphetamine and/or methamphetamine in said sample.

Claim 30 (canceled).

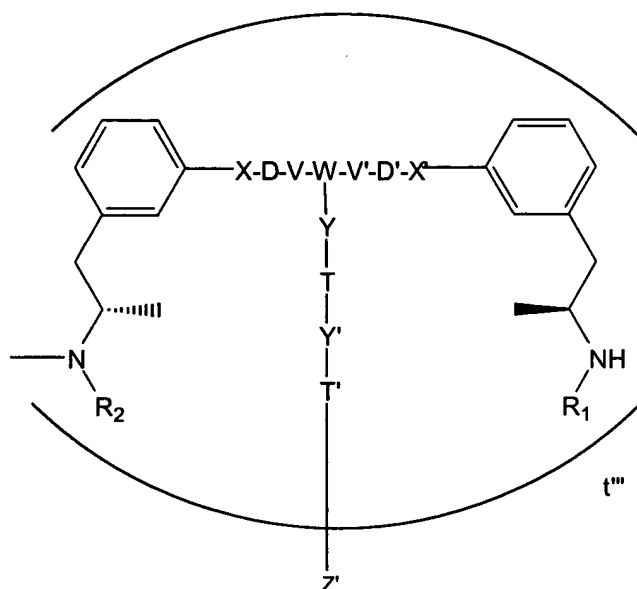
31. (original) A method according to Claim 30 wherein said method is a homogeneous method and said medium is examined for the amount of said signal.

32. (currently amended) A method according to Claim 30 wherein said method is a heterogeneous method and ~~said complex, if present, is separated from said medium and~~ said medium or said complex is examined for the amount of said signal.

33. (currently amended) A method for determining amphetamine and/or methamphetamine in a sample suspected of containing amphetamine and/or methamphetamine, said method comprising:

- (a) providing in combination in a medium:
  - (i) said sample,
  - (ii) an antibody for amphetamine,

- (iii) an antibody for methamphetamine,
- (iv) a compound of the formula:



wherein:

- $R_1$  and  $R_2$  are H,
  - X and X' are independently O, S, or a bond;
  - D and D' are independently alkylene or substituted alkylene;
  - V and V' are independently O, S, or a bond;
  - W is CH;
  - Y is O, S, a bond, or  $NR_3$  wherein  $R_3$  is H or lower alkyl;
  - T is alkylene,  $-(C=O)$ alkylene, , ethereal alkylene, acetamide or a bond;
  - Y' is O, S, a bond, or  $NR_3$  wherein  $R_3$  is H or lower alkyl;
  - T' is alkylene,  $-(C=O)$ alkylene, ethereal alkylene, acetamide or a bond; and
  - Z' is an enzyme;
  - $t''$  is an integer between 1 and the molecular weight of said enzyme divided by about 500;
- with the proviso that X and X' have approximately the same length, D and D' have approximately the same length, and V and V' have approximately the same length; and

- (b) examining said medium for the presence or amount of signal from said enzyme of  
~~a complex comprising said compound and said antibody for amphetamine and/or a complex of~~

~~said compound and said antibody for methamphetamine~~, the presence or amount thereof indicating the presence or amount of said amphetamine and/or methamphetamine in said sample.

Claim 34 (canceled).

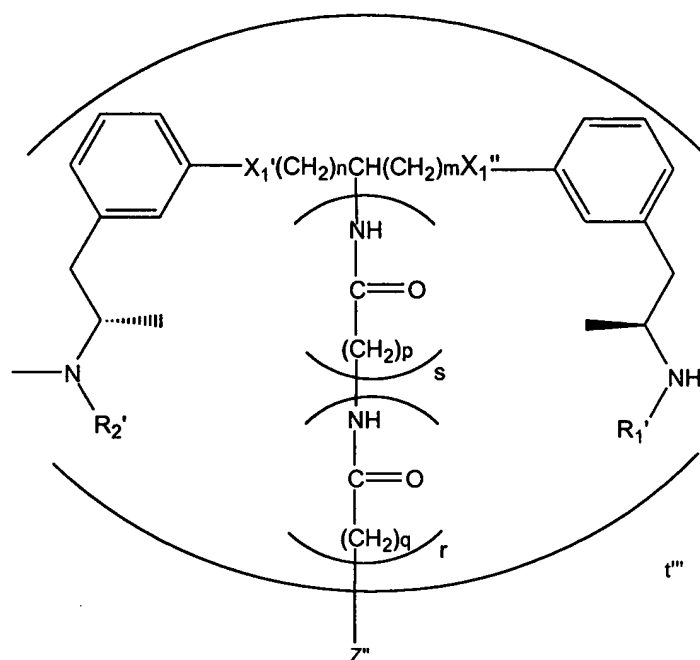
35. (original) A method according to Claim 34 wherein said method is a homogeneous method and said medium is examined for the amount of said signal.

36. (currently amended) A method according to Claim 34 wherein said method is a heterogeneous method and ~~said complex, if present, is separated from said medium and~~ said medium or said complex is examined for the amount of said signal.

37. (original) A method according to Claim 33 wherein said enzyme is glucose-6-phosphate dehydrogenase.

38. (currently amended) A method for determining amphetamine and/or methamphetamine in a sample suspected of containing amphetamine and/or methamphetamine, said method comprising:

- (a) providing in combination in a medium:
  - (i) said sample,
  - (ii) an antibody for amphetamine,
  - (iii) an antibody for methamphetamine,
  - (iv) a compound of the formula:



wherein:

$R_1'$  and  $R_2'$  are H,

$X_1'$  and  $X_1''$  are S or O;

$Z''$  is an enzyme;

$t'''$  is an integer between 1 and the molecular weight of said enzyme divided by about 500; and

$n$ ,  $m$ ,  $p$ ,  $q$ ,  $r$  and  $s$  are each independently 1 to 5; and

(b) examining said medium for the presence or amount of signal from said enzyme of  
~~a complex comprising said compound and said antibody for amphetamine and/or a complex of~~  
~~said compound and said antibody for methamphetamine~~, the presence or amount thereof  
 indicating the presence or amount of said amphetamine and/or methamphetamine in said sample.

Claim 39 (canceled).

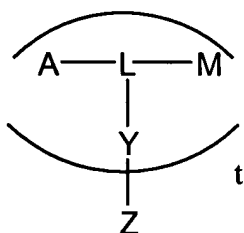
40. (original) A method according to Claim 39 wherein said method is a homogeneous method and said medium is examined for the amount of said signal.

41. (currently amended) A method according to Claim 39 wherein said method is a heterogeneous method and ~~said complex, if present, is separated from said medium and~~ said medium or said complex is examined for the amount of said signal.

42. (original) A method according to Claim 38 wherein said enzyme is glucose-6-phosphate dehydrogenase.

43. (currently amended) A kit comprising in packaged combination:

- (i) an antibody for amphetamine,
- (ii) an antibody for methamphetamine,
- (iii) a compound of the formula:



wherein:

A is an amphetamine moiety,

M is a methamphetamine moiety,

L is a linking group,

Y is a bond or a linking group and is bonded to L at a point equidistant between A and M,

Z is an enzyme,

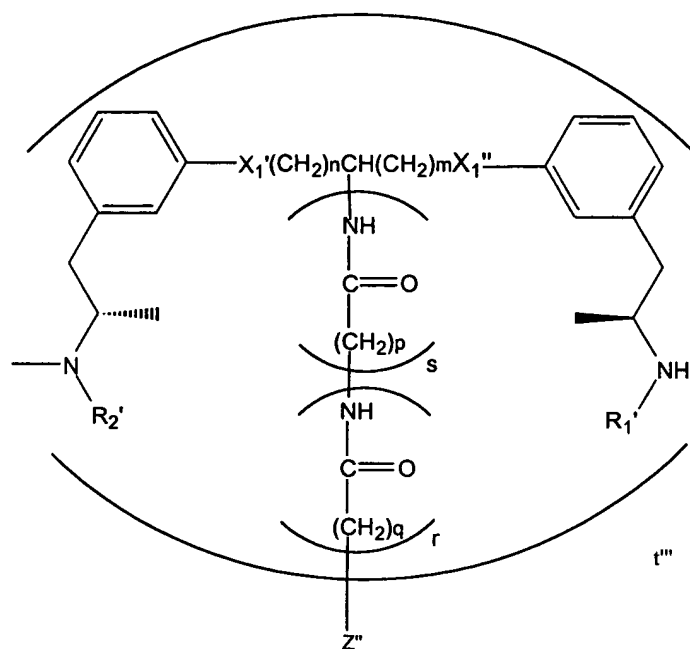
t is an integer between 1 and the molecular weight of said enzyme divided by about 500.

44. (currently amended) A kit according to Claim 43 wherein A and M are linked to L from the same corresponding position in A and M.

45. (currently amended) A kit according to Claim 43 wherein said amphetamine and said methamphetamine are stereospecific.

46. (original) A kit according to Claim 43 wherein said enzyme is glucose-6-phosphate dehydrogenase.

47. (original) A kit according to Claim 43 wherein said compound has the formula:



wherein:

$R_1'$  and  $R_2'$  are H,

$X_1'$  and  $X_1''$  are S or O;

$Z''$  is an enzyme;

$t'''$  is an integer between 1 and the molecular weight of said enzyme divided by about 500; and

$n$ ,  $m$ ,  $p$ ,  $q$ ,  $r$  and  $s$  are each independently 1 to 5.